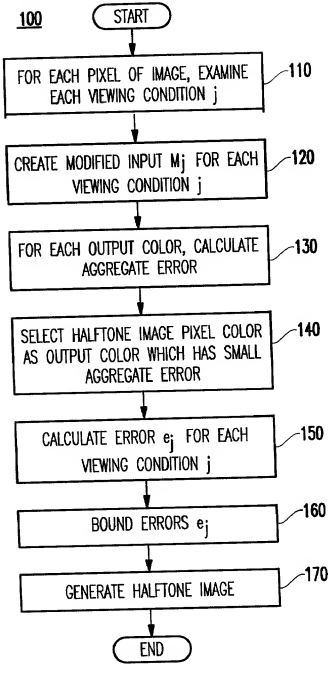
100
START
FOR EACH PIXEL OF IMAGE, EXAMINE EACH VIEWING CONDITION j
110
CREATE MODIFIED INPUT Mj FOR EACH VIEWING CONDITION j
120
FOR EACH OUTPUT COLOR, CALCULATE AGGREGATE ERROR
130
SELECT HALFTONE IMAGE PIXEL COLOR AS OUTPUT COLOR WHICH HAS SMALL AGGREGATE ERROR
140
CALCULATE ERROR ej FOR EACH VIEWING CONDITION j
150
BOUND ERRORS ej
160
GENERATE HALFTONE IMAGE
170
END

FIG.1A

```
For each k                                  /* rows */
  for each l                                /* columns */
    for each j                              /* viewing condition */
      M_j(k,l)=N_j(k,l)+Σ_{u,v} w_j(u,v)e_j(k-u,l-v)
    endfor
    t=arg min_i Σ_j |M_j(k,l)-a_ij|
    o(k,l)=c_t
    for each j                              /* viewing condition */
      e_j(k,l)=M_j(k,l)-a_tj
        if e_j(k,l) > UPBOUND_j then e_j(k,l)=UPBOUND_j
        if e_j(k,l) > LOBOUND_j then e_j(k,l)=LOBOUND_j
    endfor
  endfor
endfor
```

FIG.1B

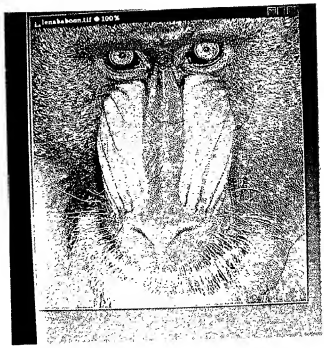

FIG.2A

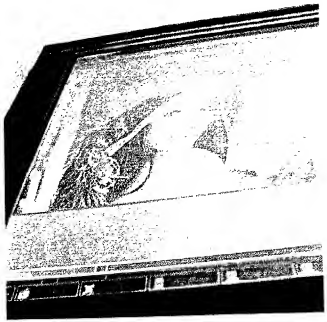

FIG.2B

FIG.2C

FIG.2D

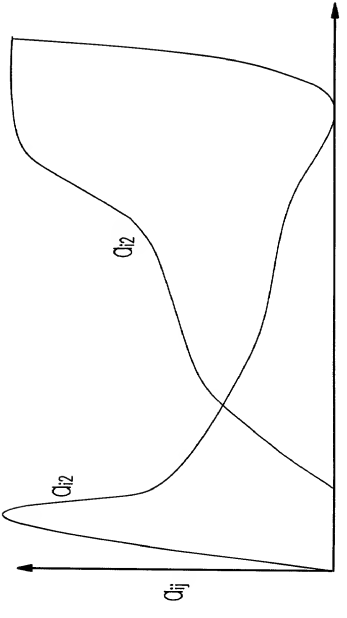

FIG.3

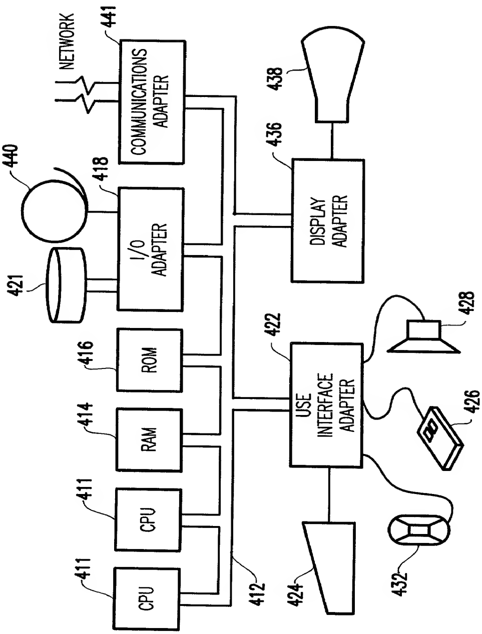
NETWORK
441
COMMUNICATIONS ADAPTER
440
418
I/O ADAPTER
421
416
ROM
414
RAM
411
CPU
411
CPU
412
438
436
DISPLAY ADAPTER
422
USE INTERFACE ADAPTER
428
426
424
432

FIG.4

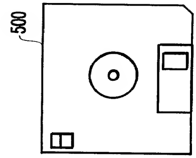
500

FIG.5